



# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312304001206

**Applicant** Topworx Incorporated  
**Address** 3300 Fern Valley Road, Louisville, Kentucky 40213, United States of America  
**Manufacturer** Topworx Incorporated  
**Address** 3300 Fern Valley Road, Louisville, Kentucky 40213, United States of America  
**Production Factory** Emerson Machinery Equipment (Shenzhen) Co. Ltd  
**Production Address** 101 Building 2, COFCO Park, Honglang North 2nd Road, Xin'an Street, Bao'an District, Shenzhen 518101, China  
**Product** D2-FF Valvetop Switchbox  
**Model/Type** DX\* F\*0 \*\*\*\* \* \*\*\*  
**Ex marking** Ex ib IIC T4 Gb, Ex tb IIIC T80°C Db  
**Reference Standards** GB/T3836.1-2021, GB/T3836.4-2021, GB/T3836.31-2021

**Certification mode** Type Test + Initial Factory Inspection + Post-Certification Surveillance

The product(s) is verified and certified according to CNCA-C23-01: 2019 *China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product* and CNEX-C2301-2019 *Guideline of China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product*.

See Annex for the detailed product information (2 pages)

Initial issue date: 2021-11-22

Issued date: 2023-03-27

Valid to: 2026-11-21

The validity of this certificate is maintained through the regular supervision of the issuing authority during the validity period.

Where any discrepancy arises between the English translation and the original Chinese version, the Chinese version shall prevail.

Director:

穆大玉



Nanyang Explosion Protected Electrical  
Apparatus Research Institute Co., Ltd.



<http://www.ccc-cnex.com>  
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## (Annex)

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### Product information:

1. This certificate covers the following models:

- DX\* F\*0 \*\*\*\* \* \*\*\*

Nomenclature:

DX	*	F	*	0	****	*	***
	(1)		(2)		(3)	(4)	(5)

(1) Enclosure: P, S, R

P=Coated Aluminum

S=Stainless Steel

R=Glass Fibre Reinforced Resin

(2) Device: F, L, P

F=Potentiometer Assembly Fitted

L=Go Limit Switches Fitted

P=Potentiometer & Go Limit Switches Fitted

(3) Denotes any number or character (Not affecting Ex performance)

(4) Piezo Pilot Valve: P, R

P= (Single Acting) 6V Fail Open/Close (Spring return)

R= (Dual Acting) 6V Fail Last Position

(5) Denotes any number or character (Not affecting Ex performance)

The product is powered by Ex ia IIC or Ex ib IIC intrinsically safe power supply that meets the GB/T3836.4 standard.

Input Parameters: Bus Connector J1 pins 1 to 3

I.S Parameters:  $U_i=30V$ ,  $I_i=380mA$ ,  $P_i=1.5W$ ,  $C_i=5nF$ ,  $L_i=10\mu H$

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- Producers should organize production in accordance with the technical documents approved by the certification body.

2. Specific conditions of safety use:

- Ingress protection: IP67.
- Ambient temperature: -20°C ~ +50°C.
- When fitted, only non-combustible fluids may be used in the pneumatic circuit.
- DXR Models Only: The equipment shall only be installed in a location where there is a low risk of mechanical damage. The enclosure constitutes a potential electrostatic risk and must only be cleaned with a damp cloth.
- When using this product, it must be powered by an Ex ia IIC or Ex ib IIC intrinsically safe power supply that meets the GB/T3836.4 standard and has obtained CCC certification.
- See instruction for other information.

3. Certificate related report(s):

- Type test report: CQST2108C048, CQST2108C048/01
- Factory inspection report: CN2021Q010579

4. Certificate change information:

- 1st change on March 27, 2023: Updated the standards for certification.

Issued date: 2023-03-27

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